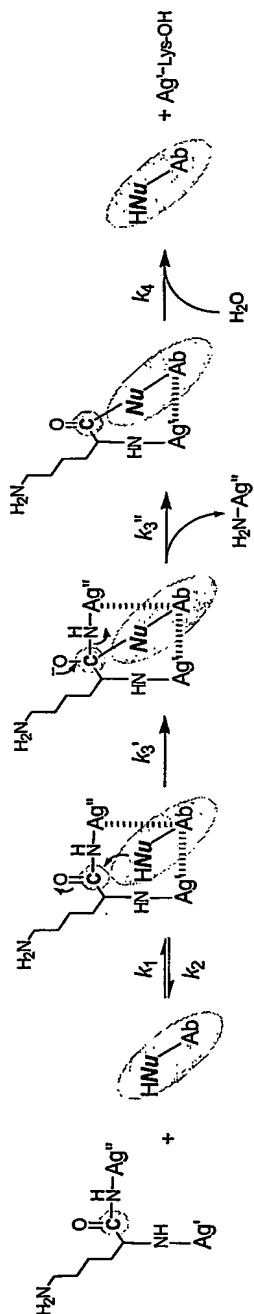
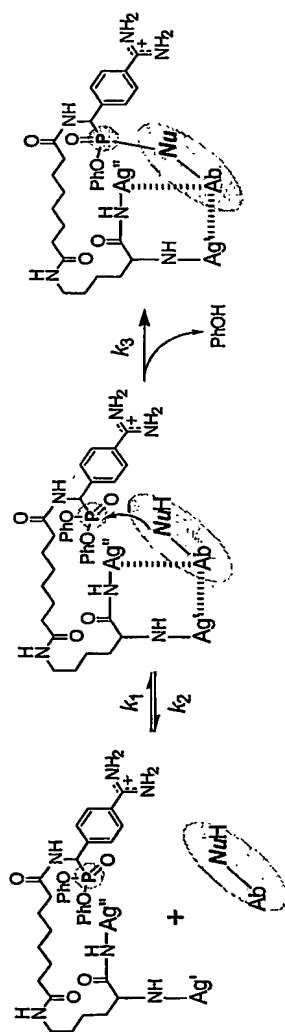


Fig 1

A



B



C

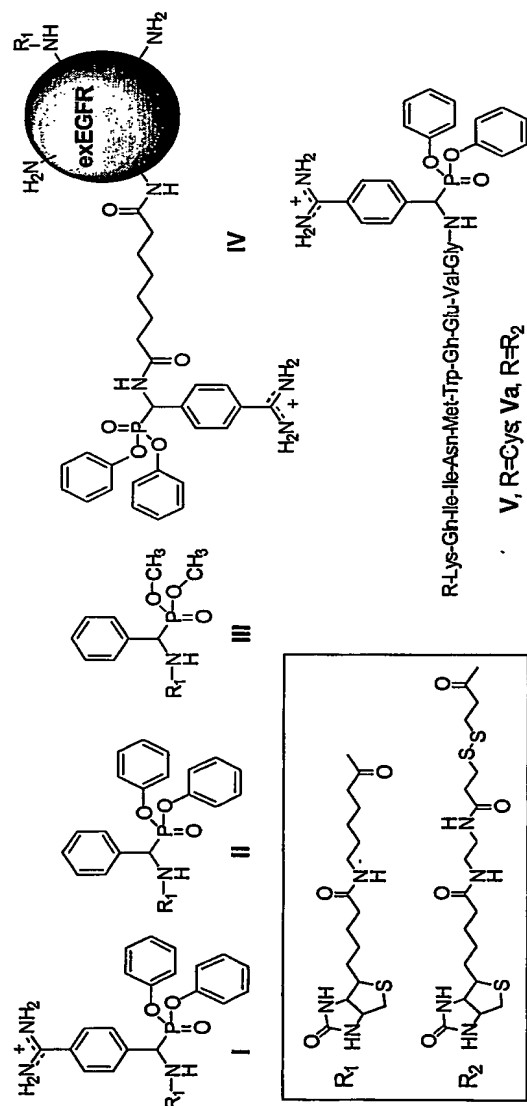


Fig 2

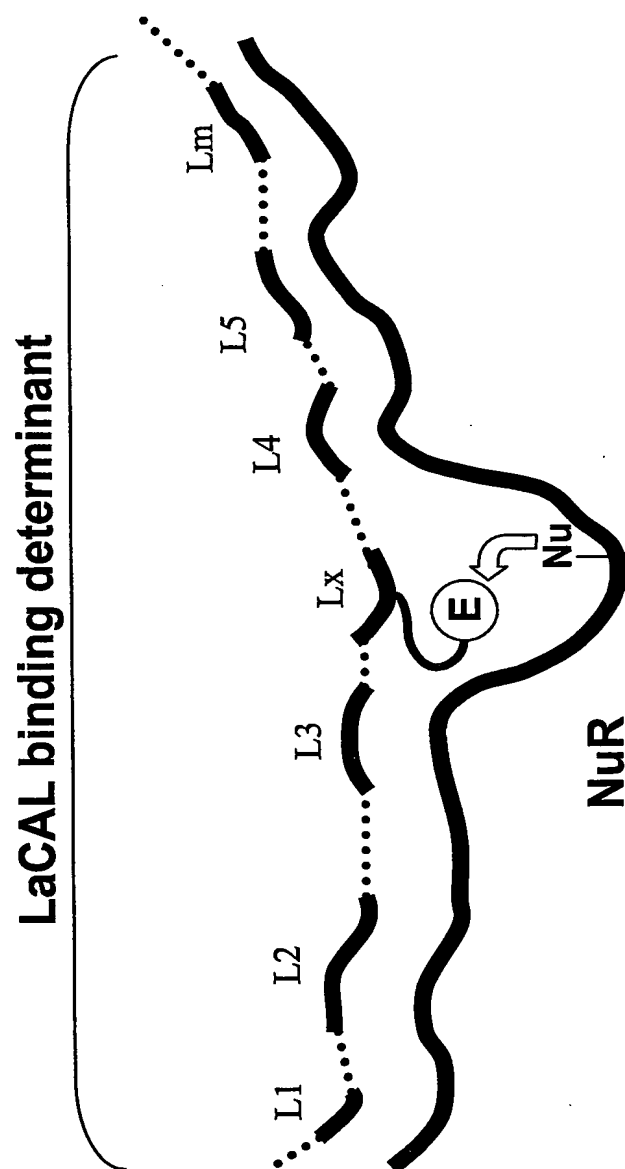


Fig 3

Catalysis and covalent binding energies of proteins

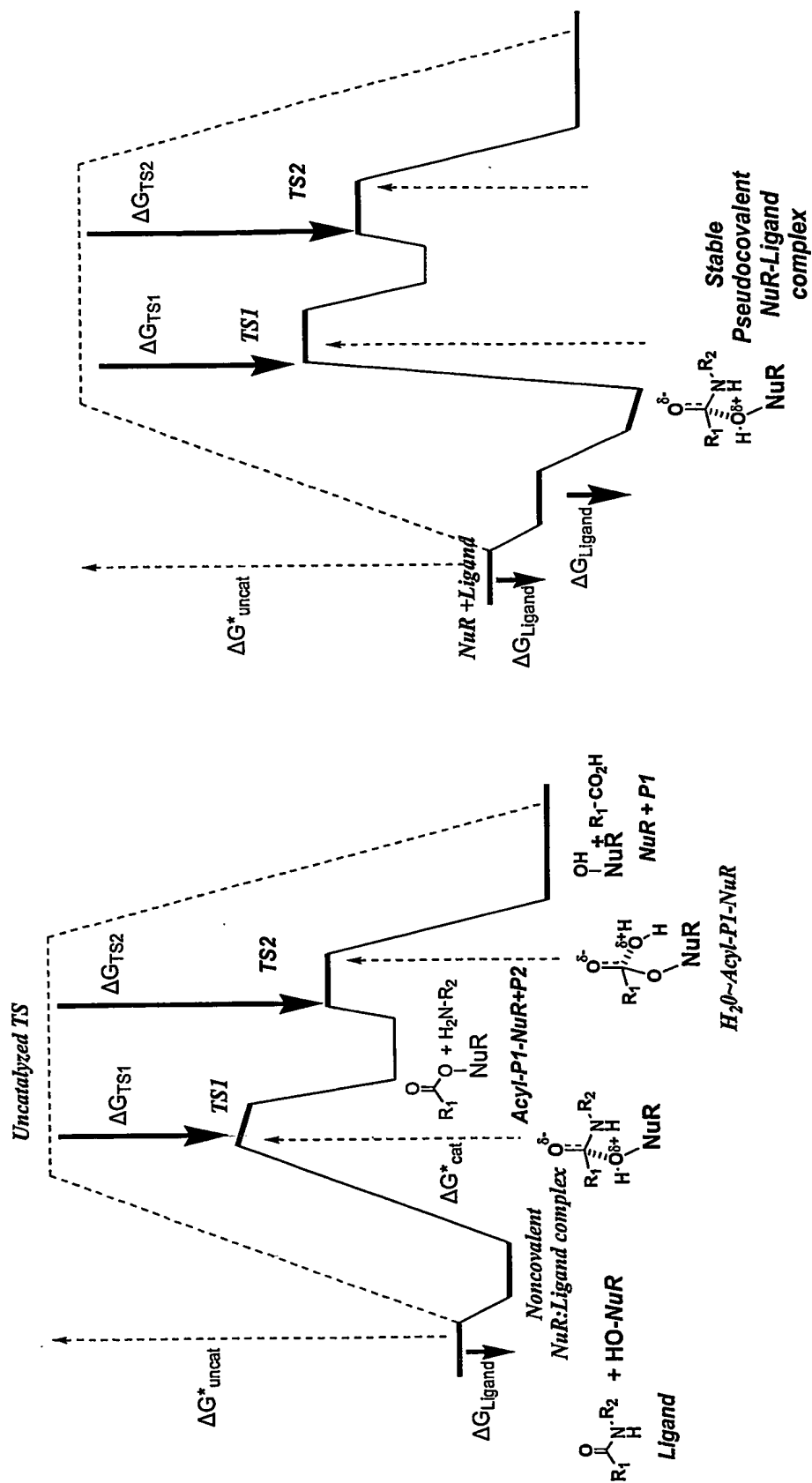
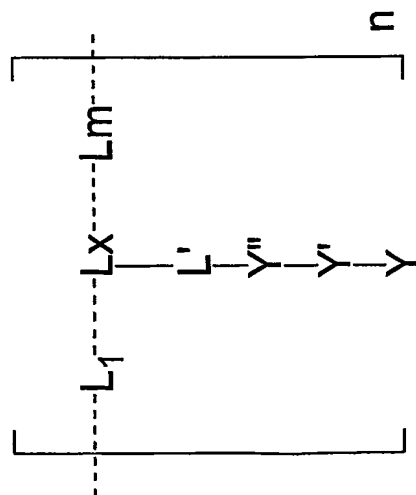
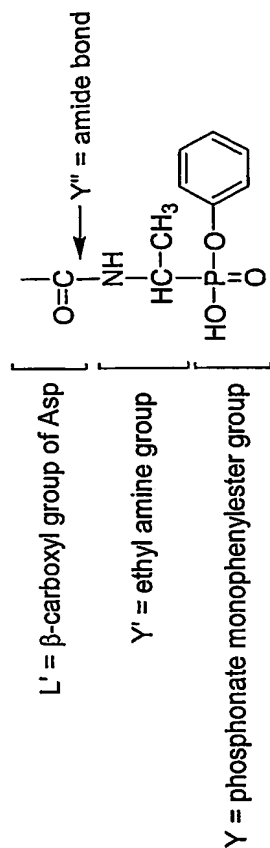


Fig 4

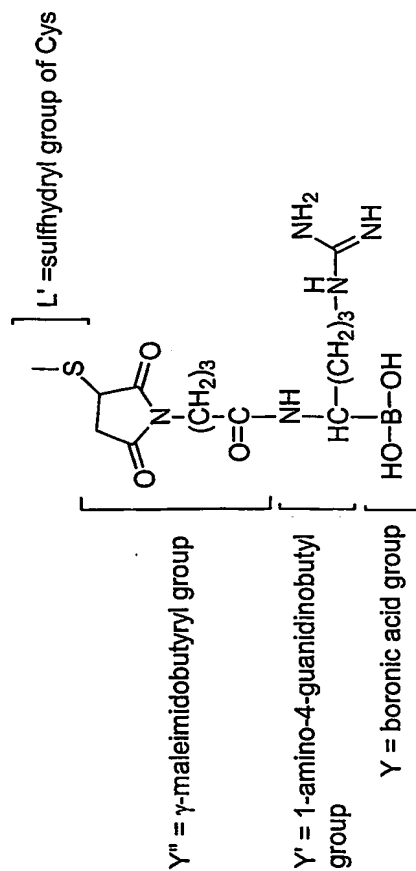
General structure of LaCAL



• L'-Y''-Y'-Y, Example 1



• L'-Y''-Y'-Y, Example 3



• L'-Y''-Y'-Y, Example 2

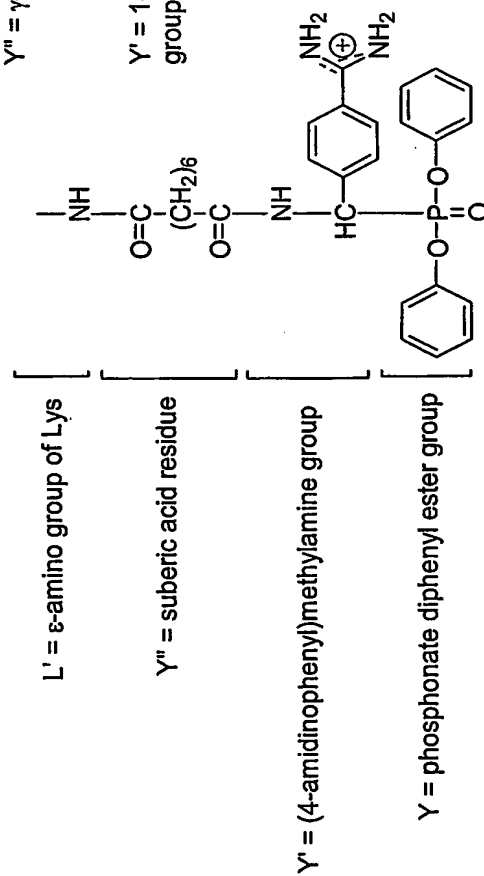
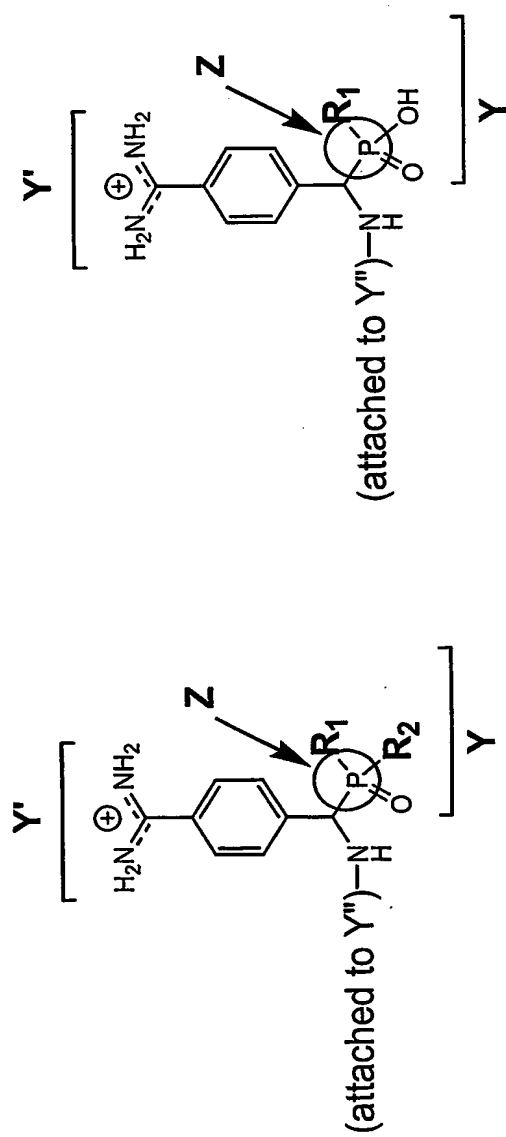


Fig 5A



LaCAL Z-R pair: Example 2

LaCAL Z-R pair: Example 1

Fig 5B

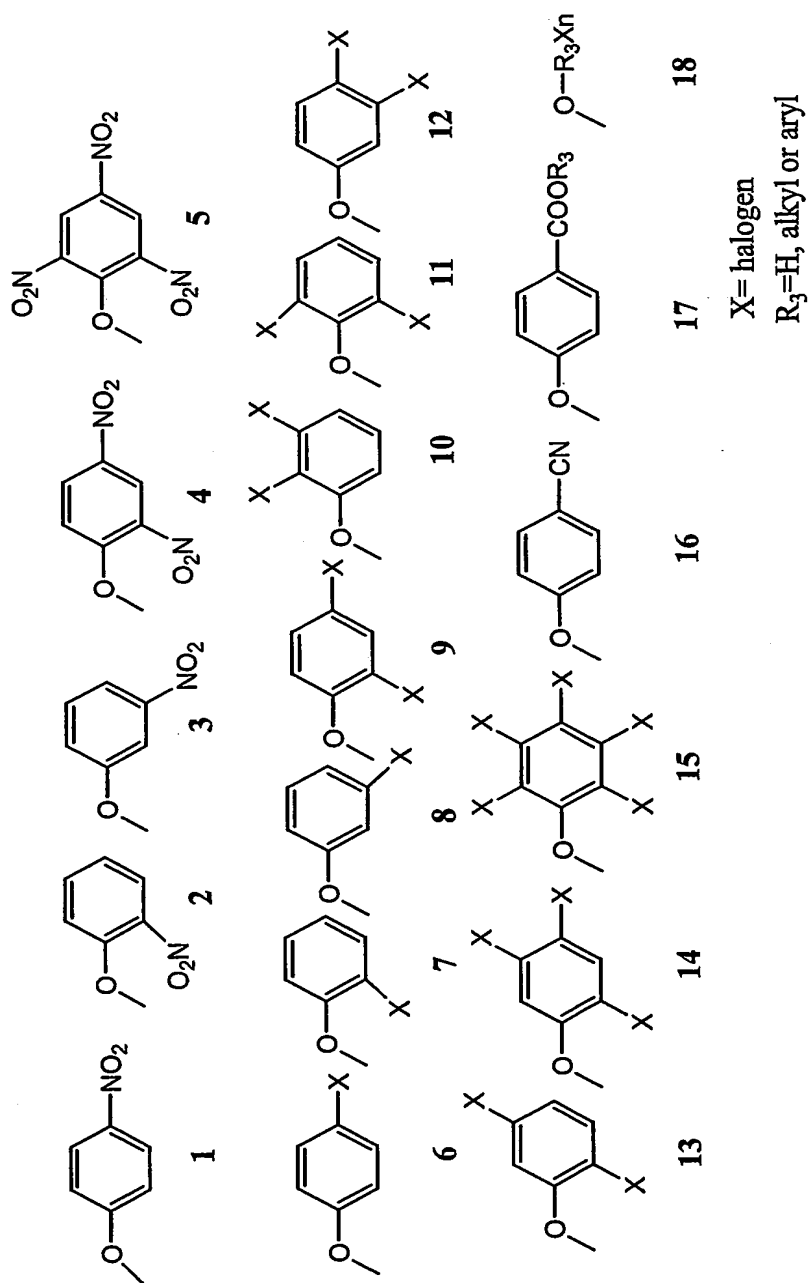
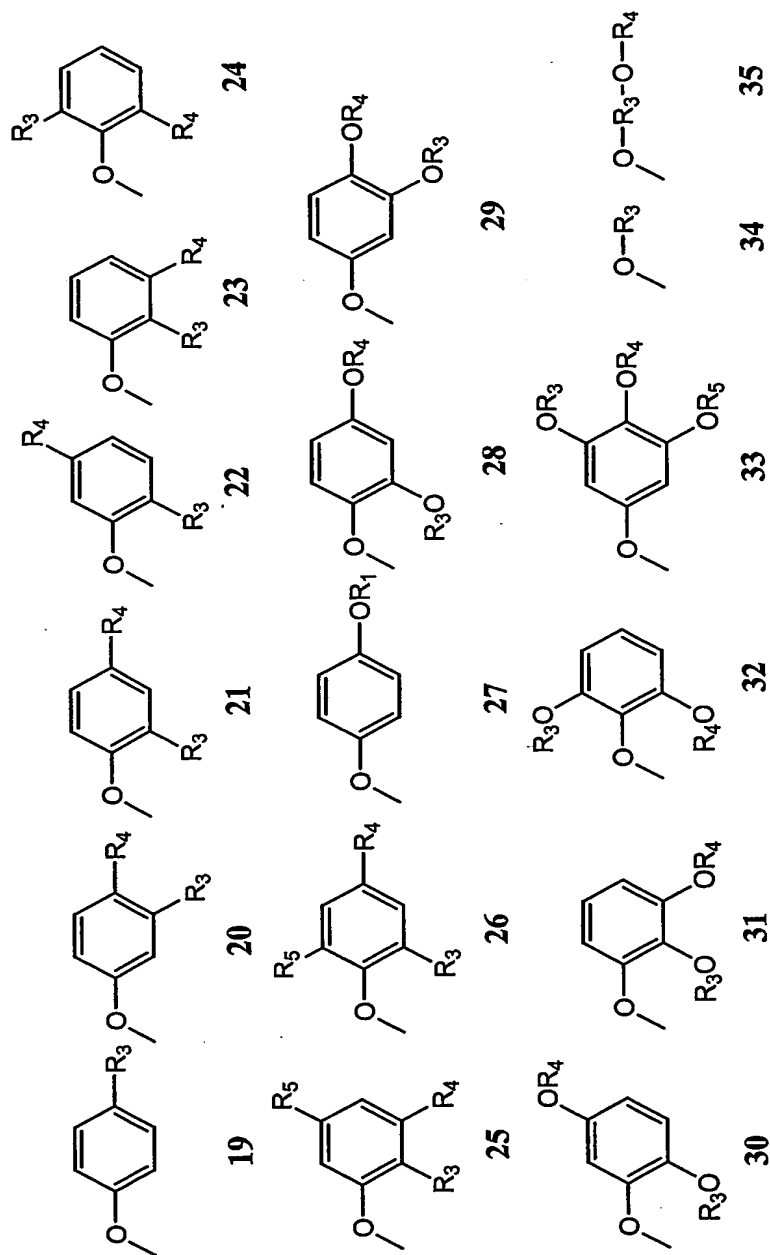


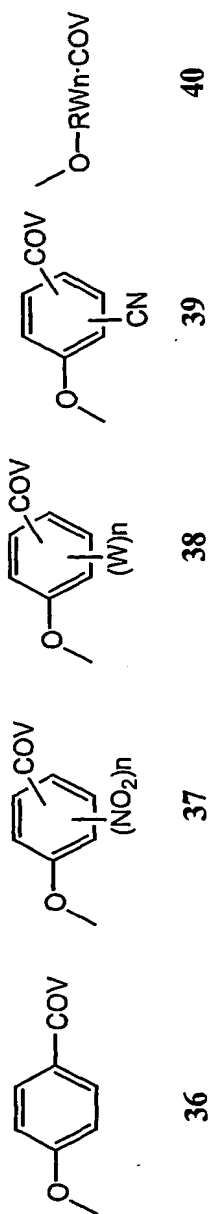
Fig 5C



$\text{R}_n = \text{H}, \text{alkyl or aryl}$

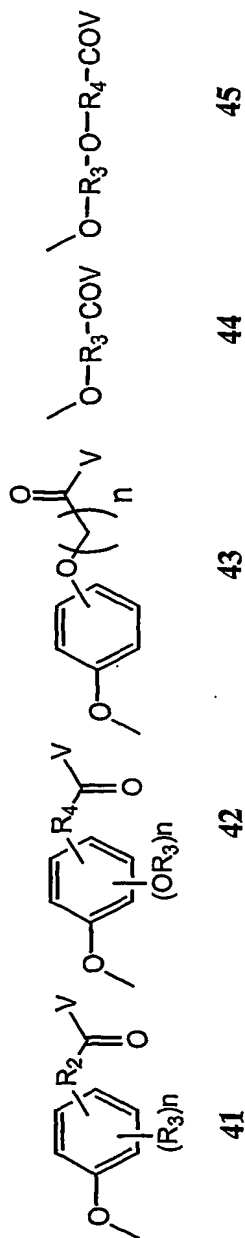
Fig 5D

A. Electron withdrawing substituents with peptide extension



W: halogen
V: peptide
R: alkyl or aryl

B. Electron donating substituents with peptide extension



V: peptide
Rn: alkyl or aryl

Fig 6

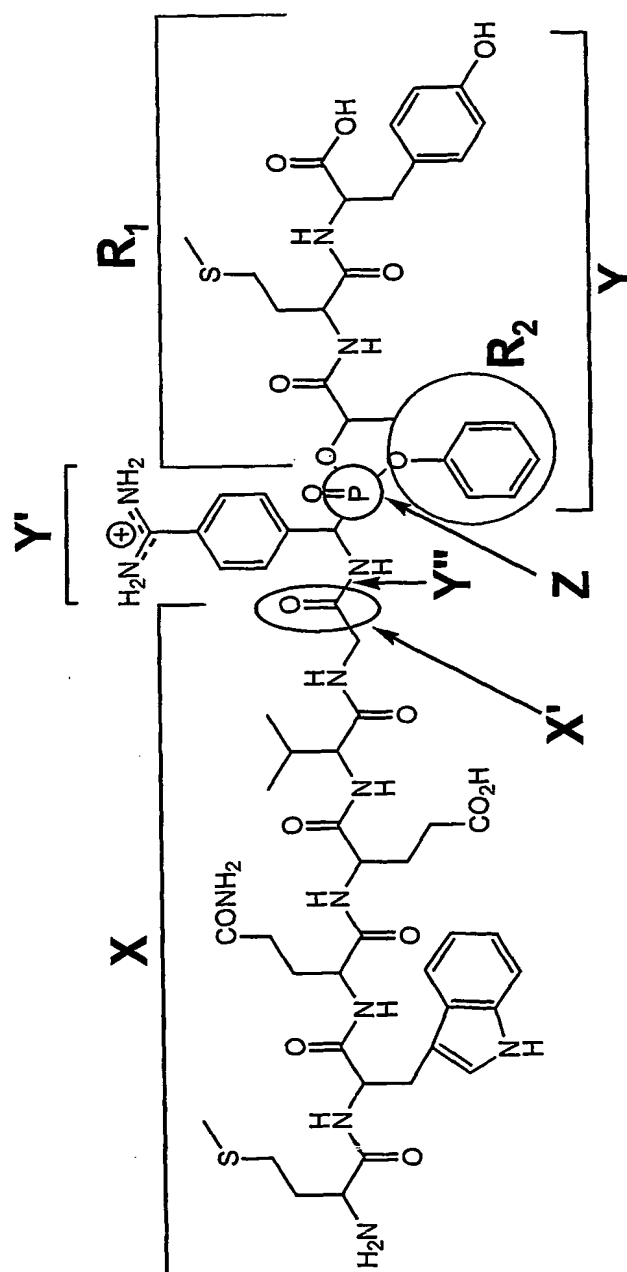


Fig 7

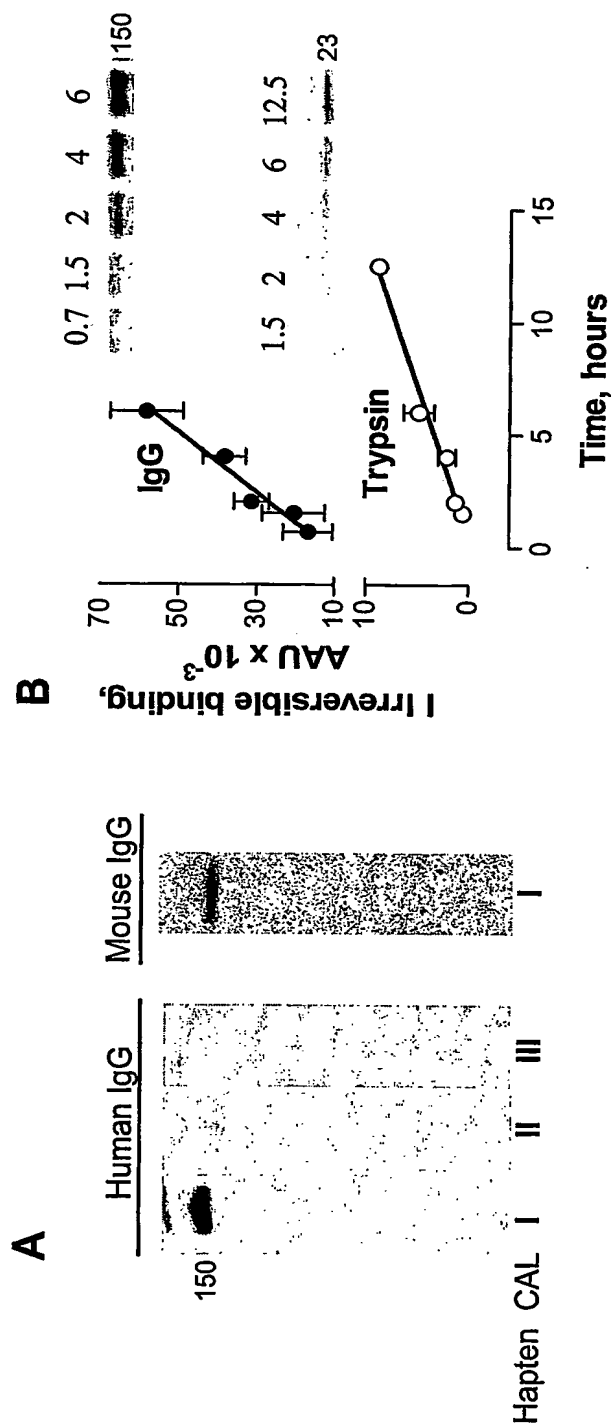


Fig 8

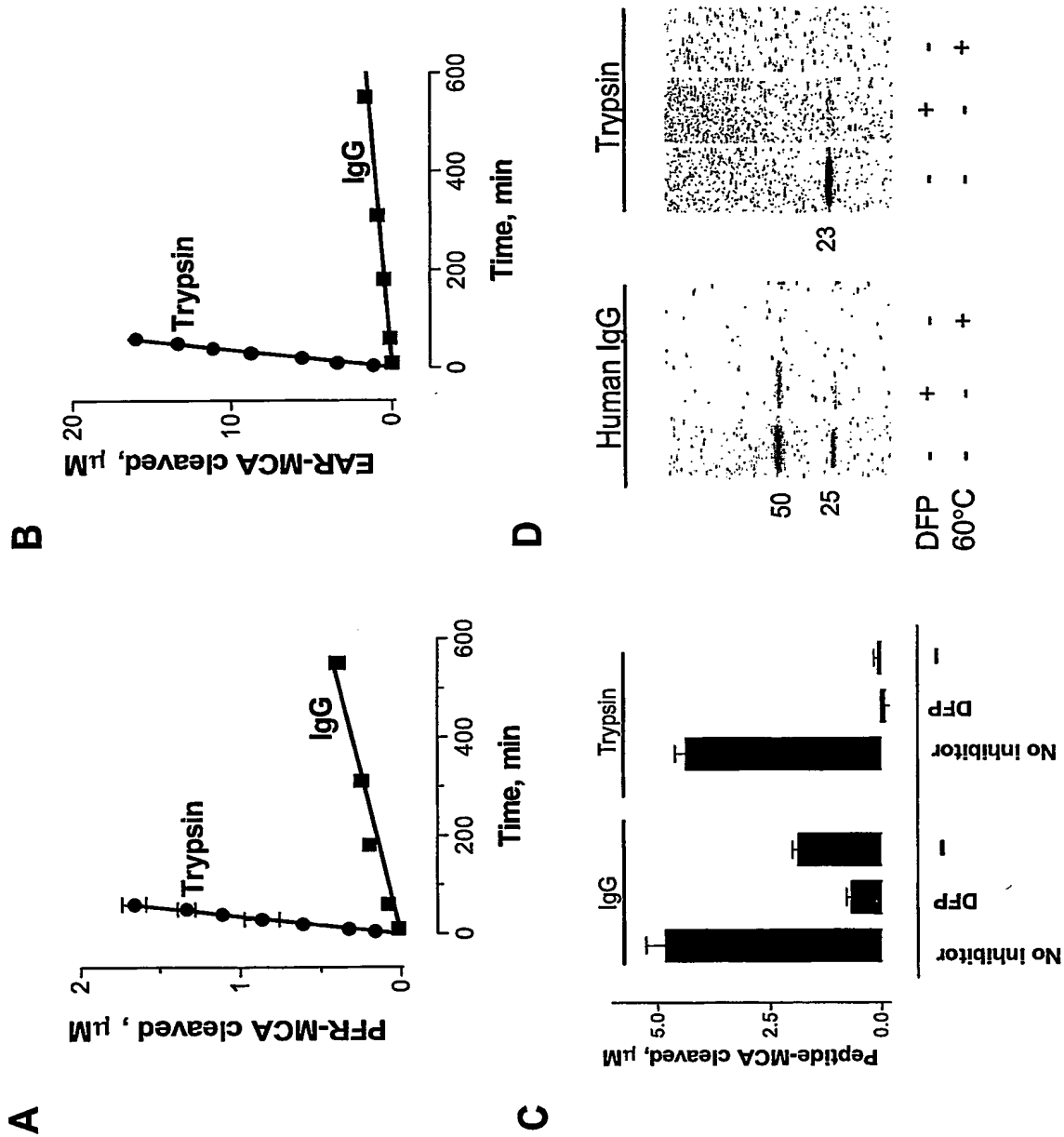


Fig 9

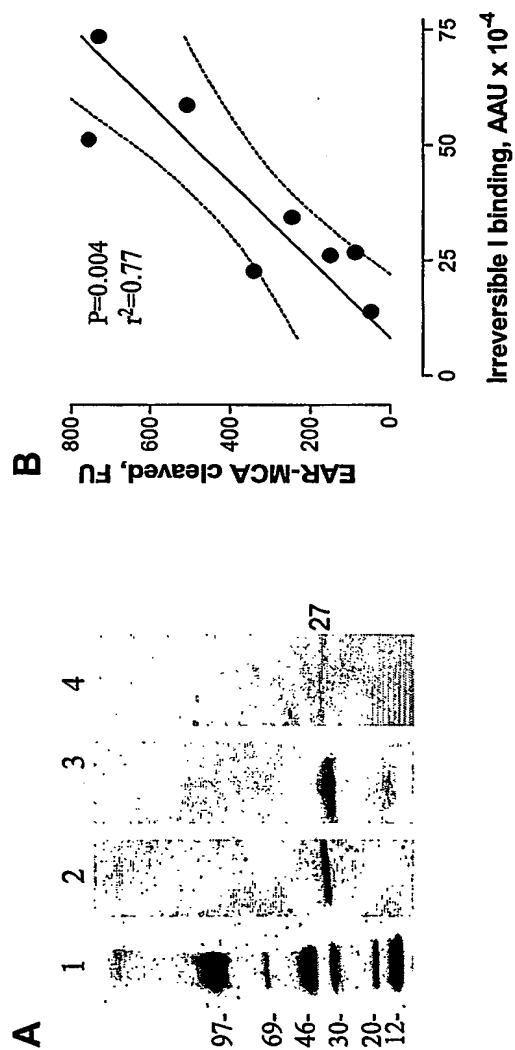


Fig 10

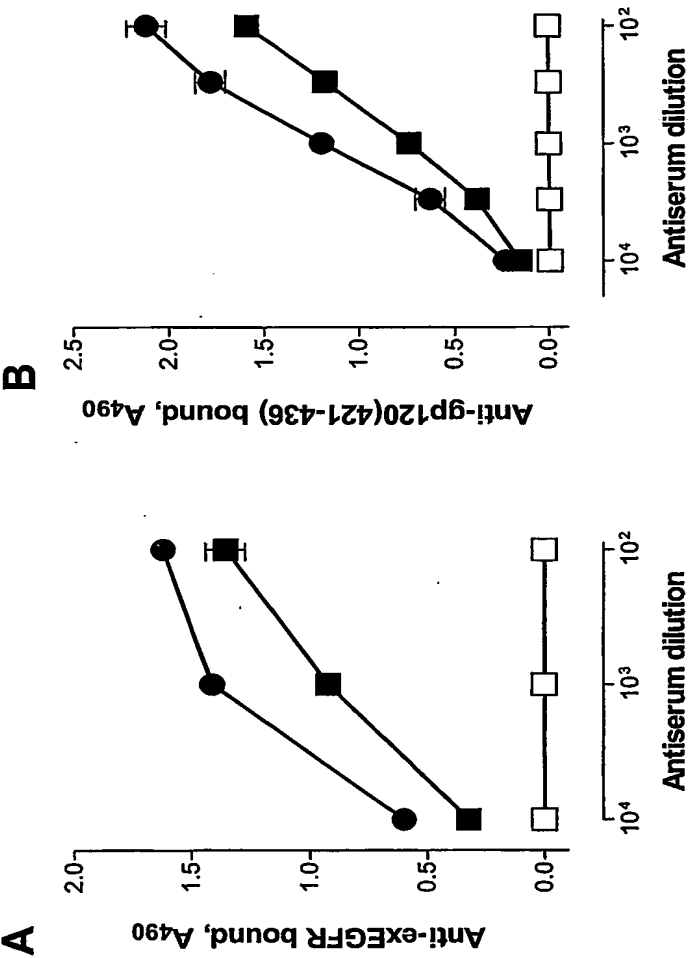


Fig 11

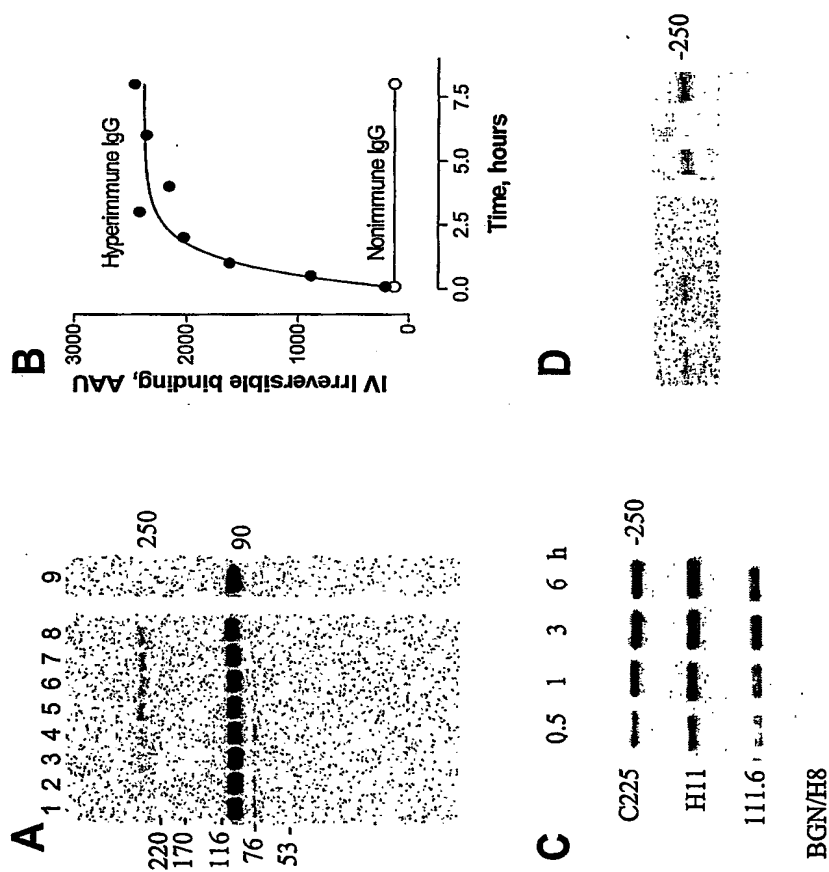


Fig 12

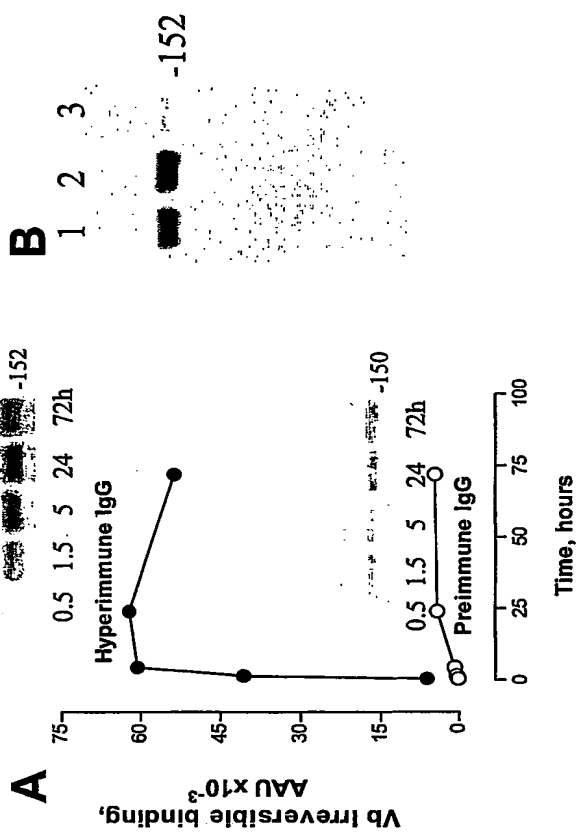
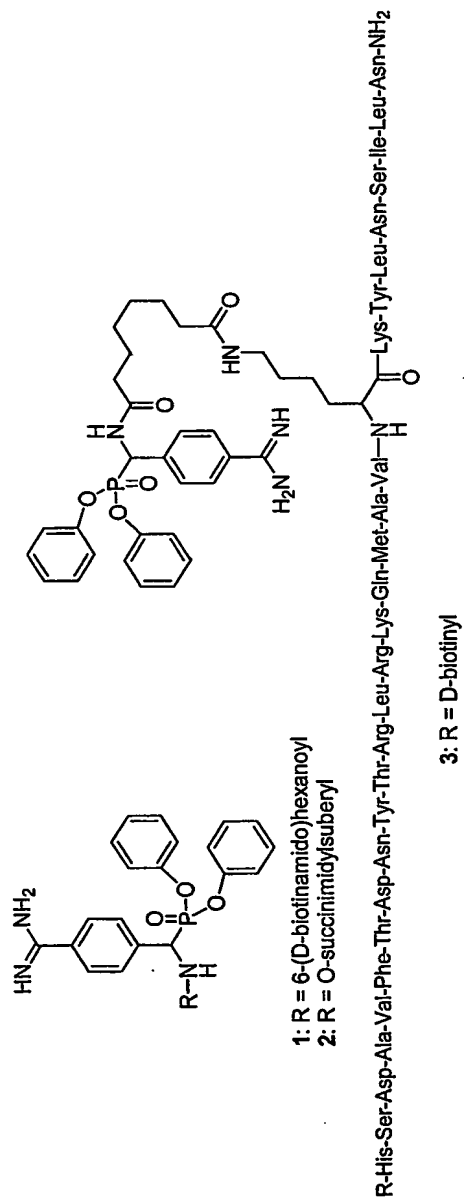


Fig 13

A



B

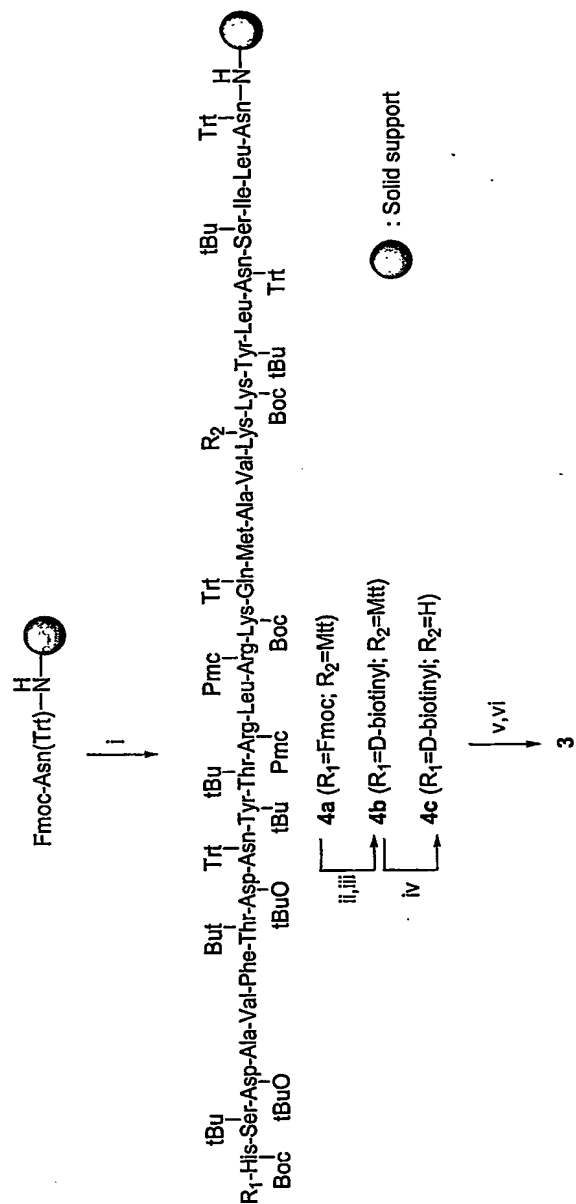


Fig 14

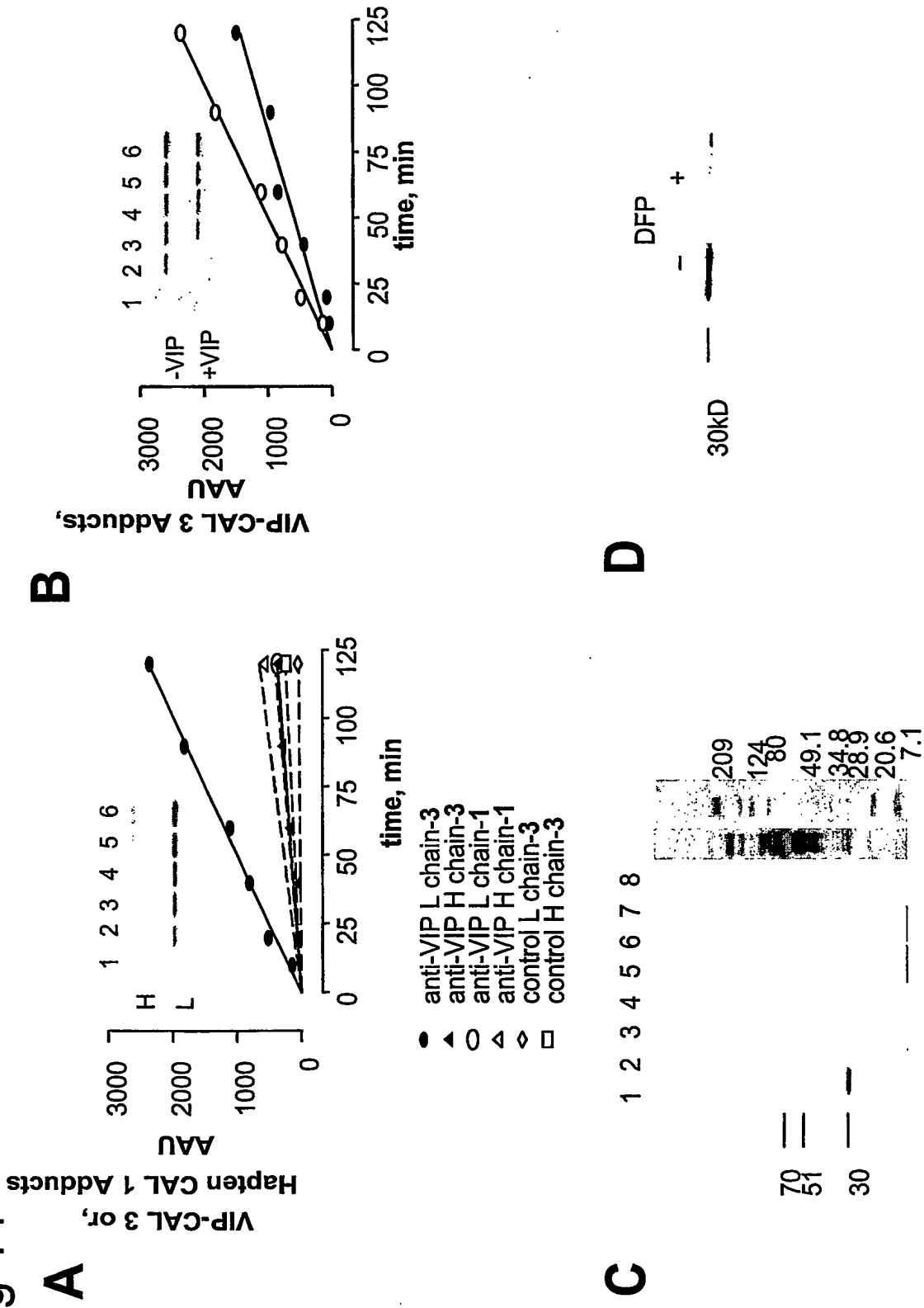
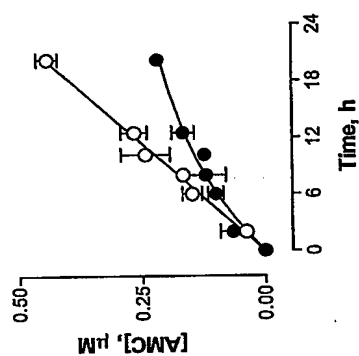
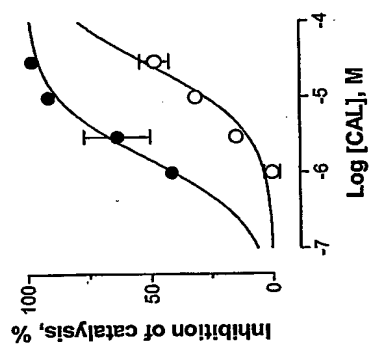


Fig 15

A



B



C

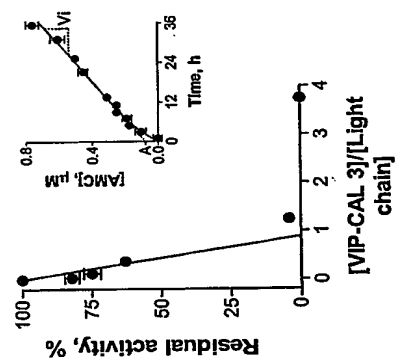
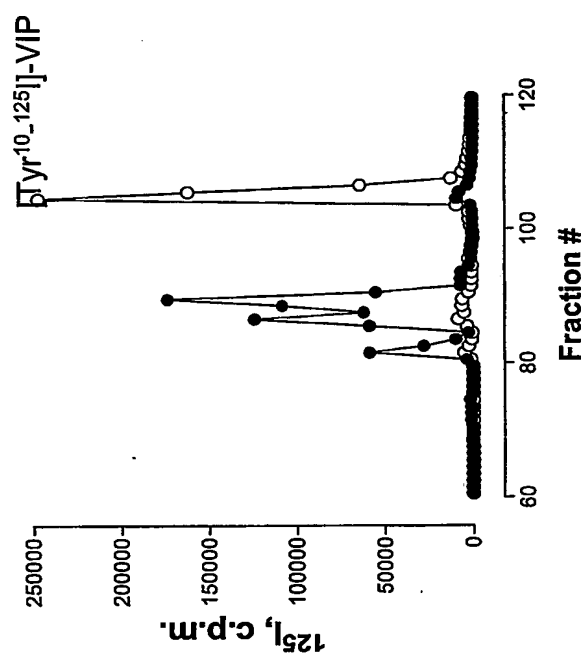


Fig 16

A



B

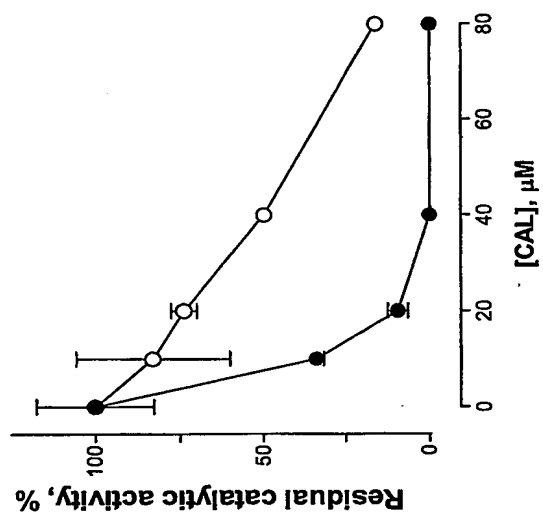
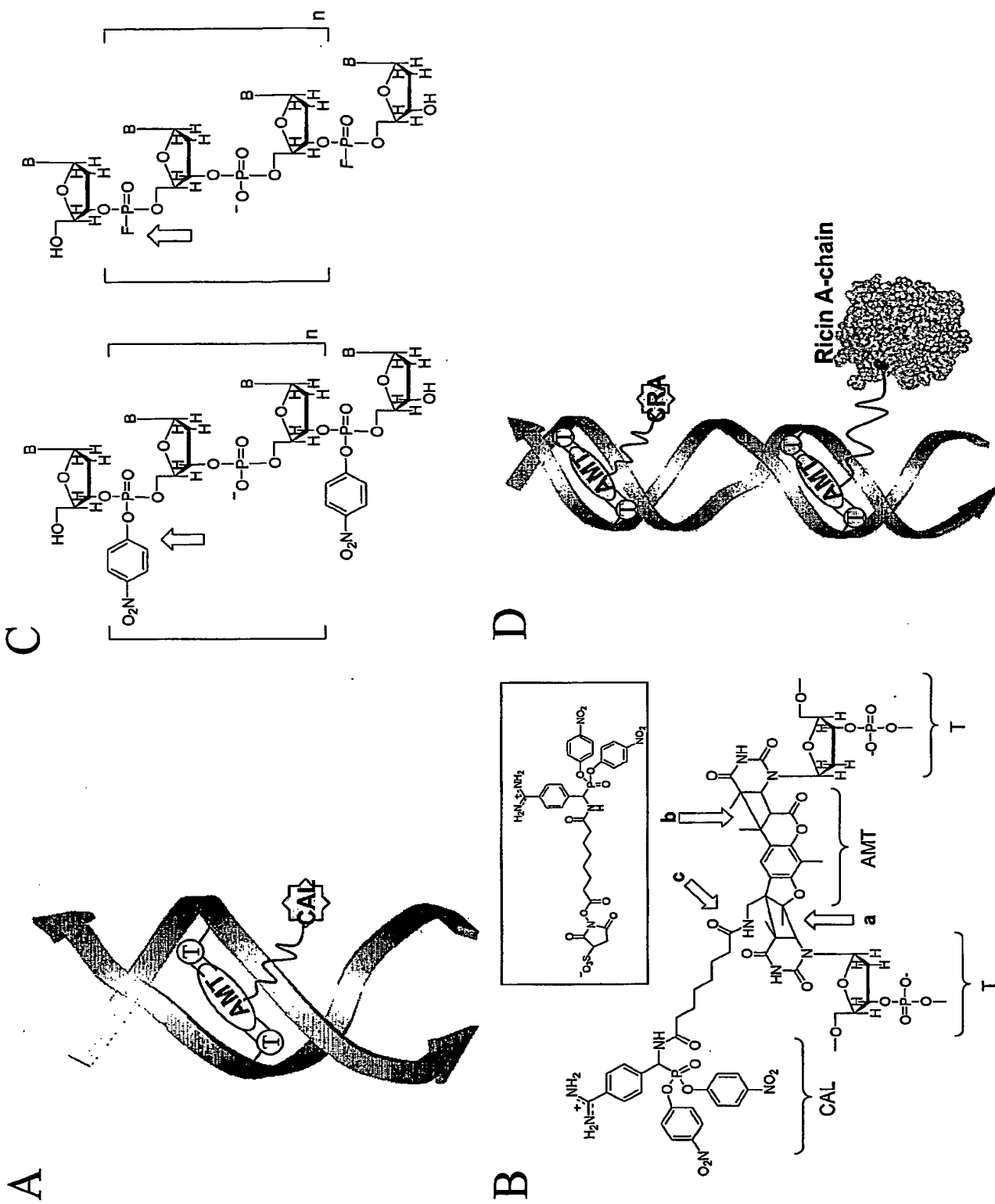


Fig 17



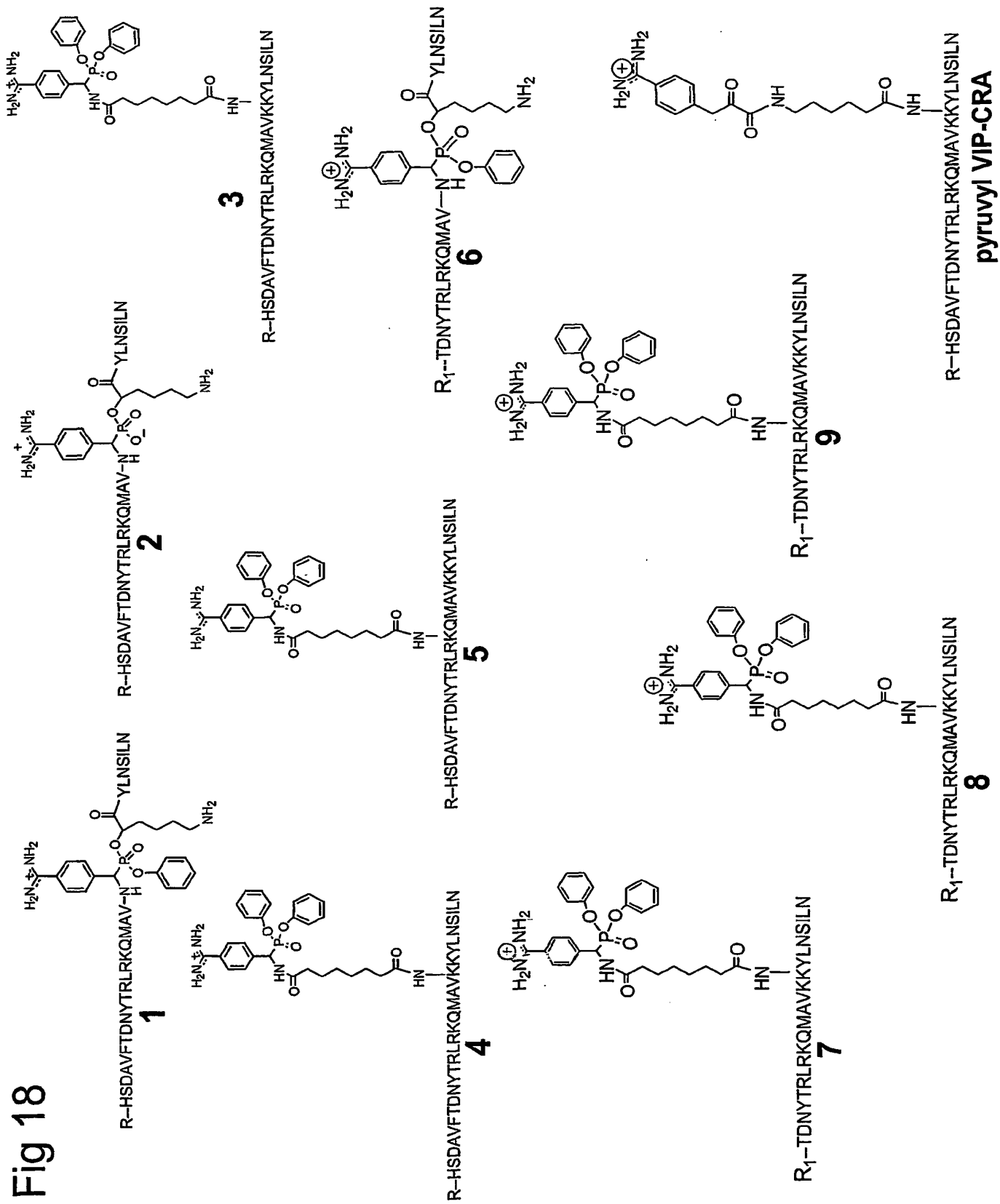


Fig 19

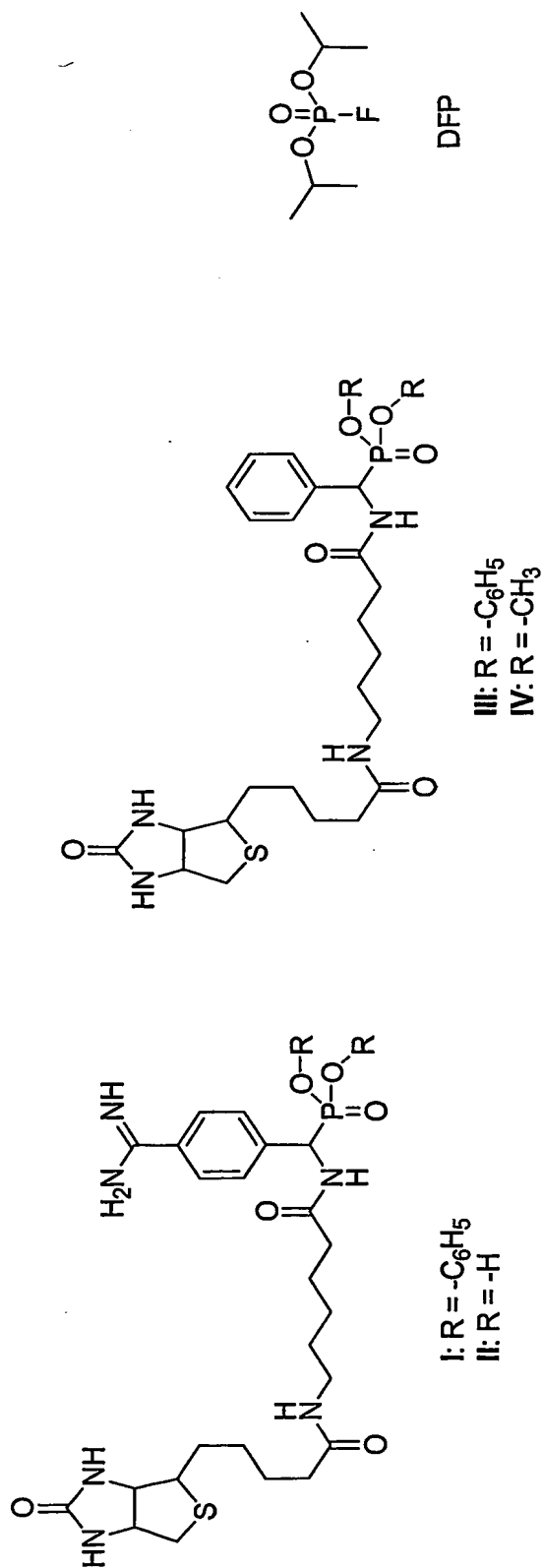


Fig 20

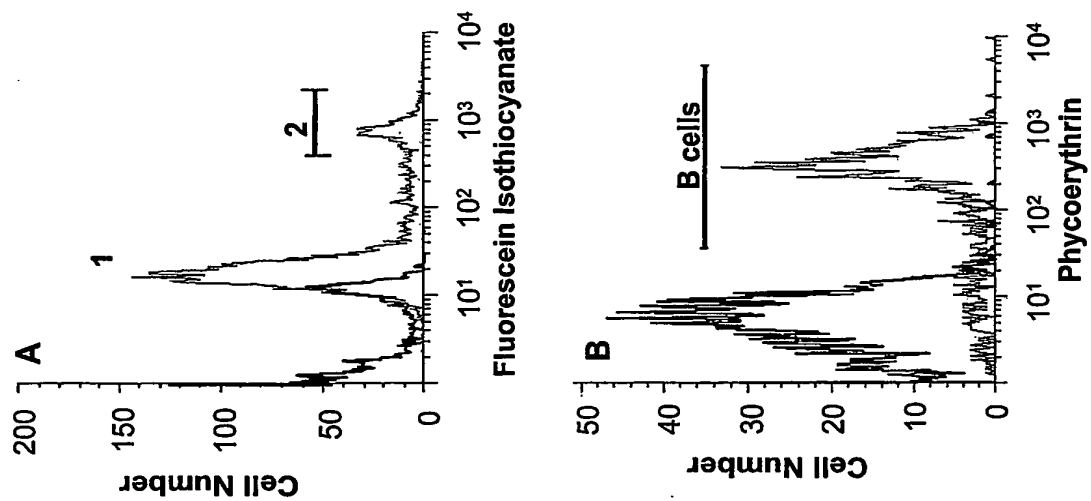


Fig 21

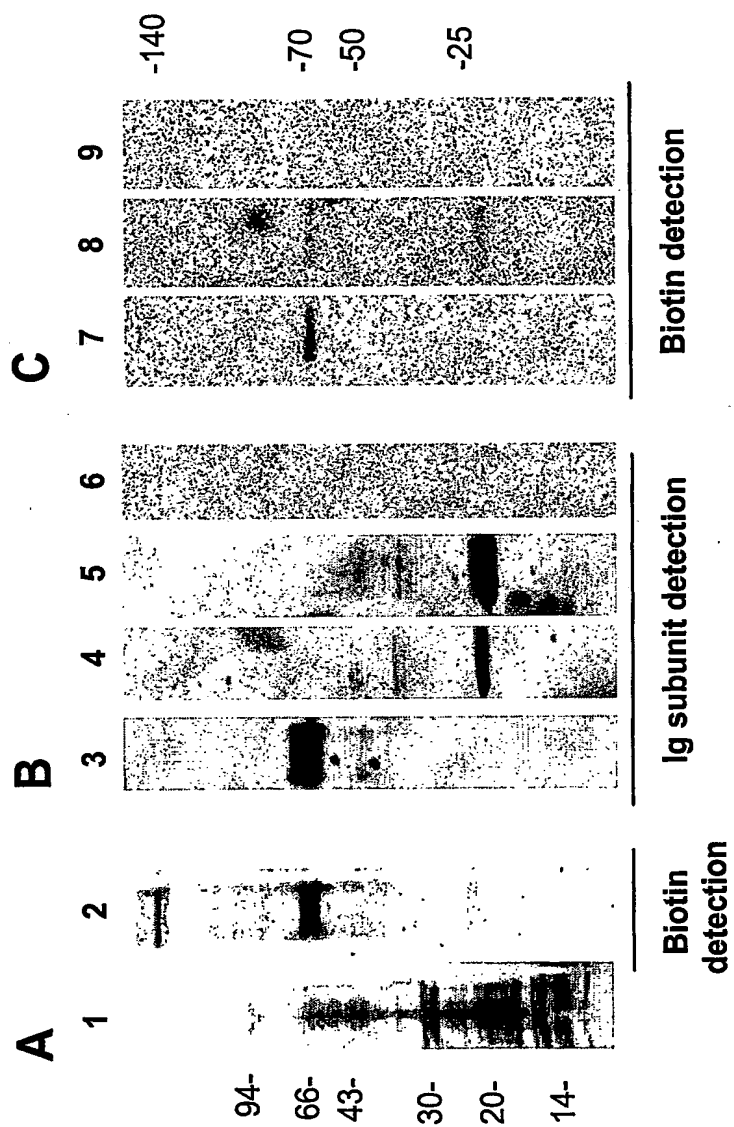
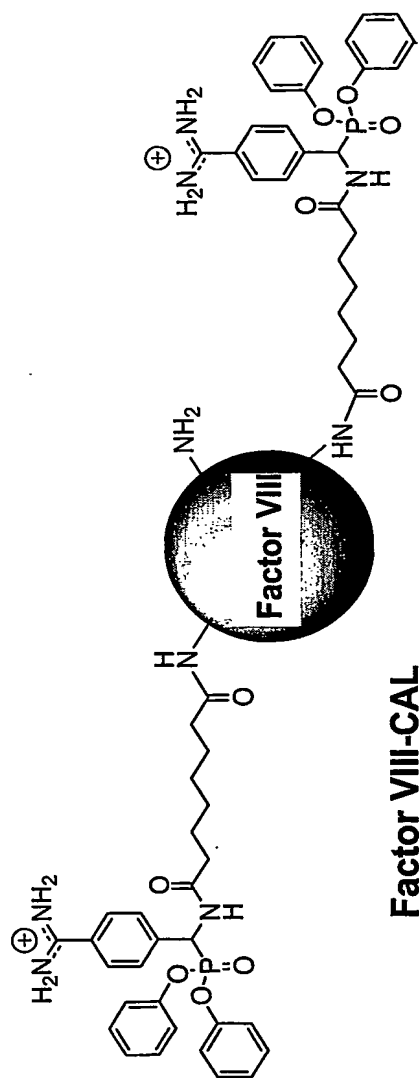


Fig 22



Factor VIII-CAL

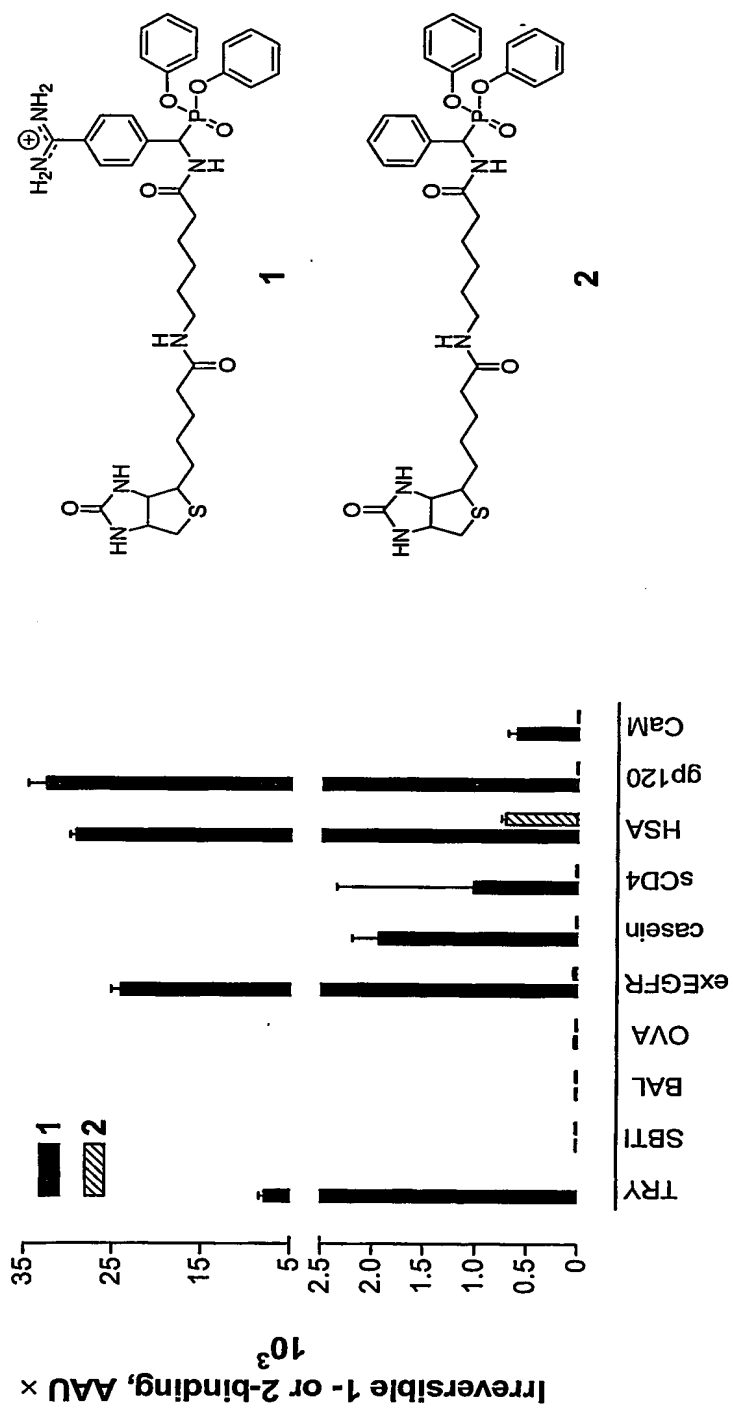


Fig 23

Fig 24

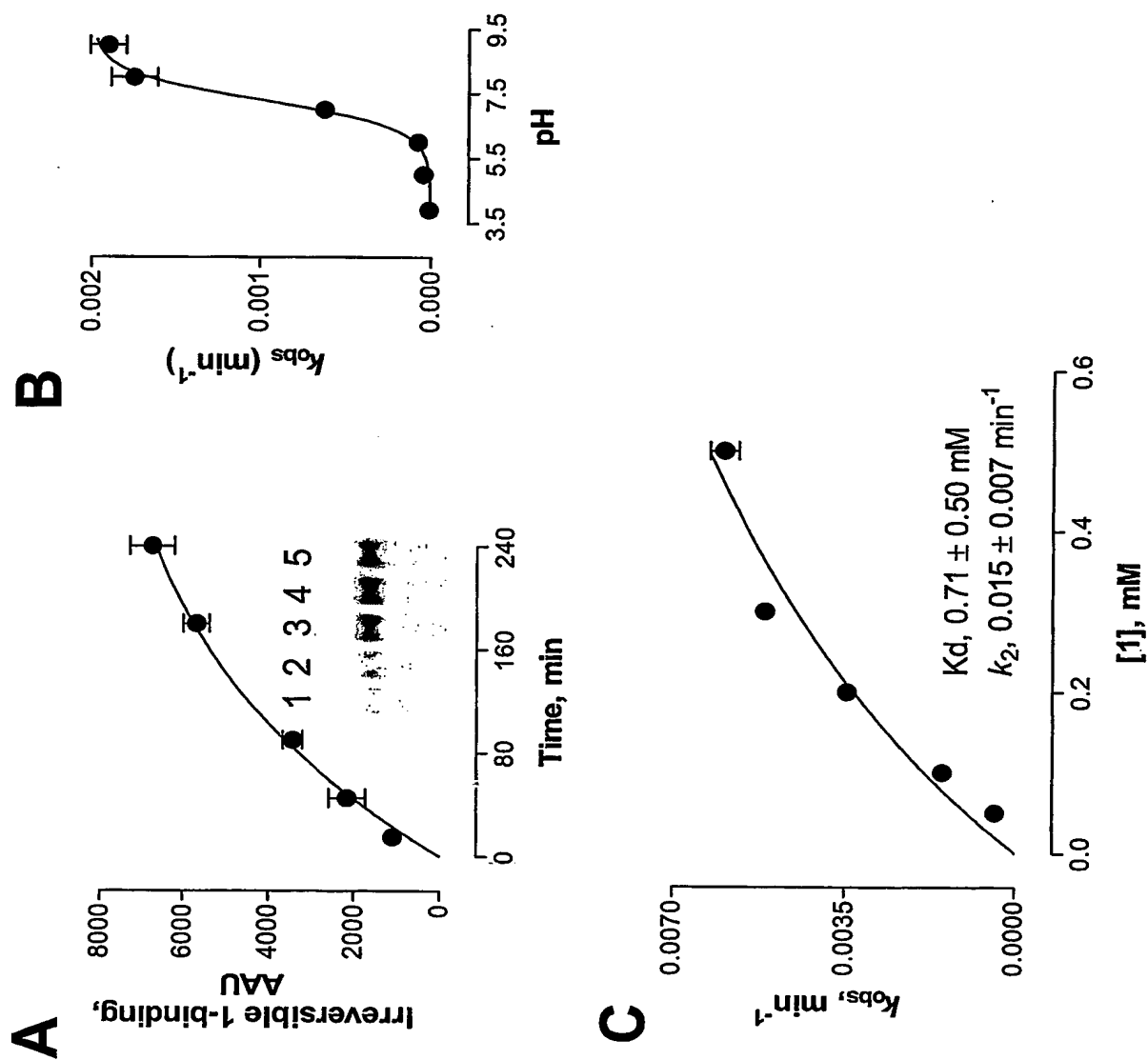
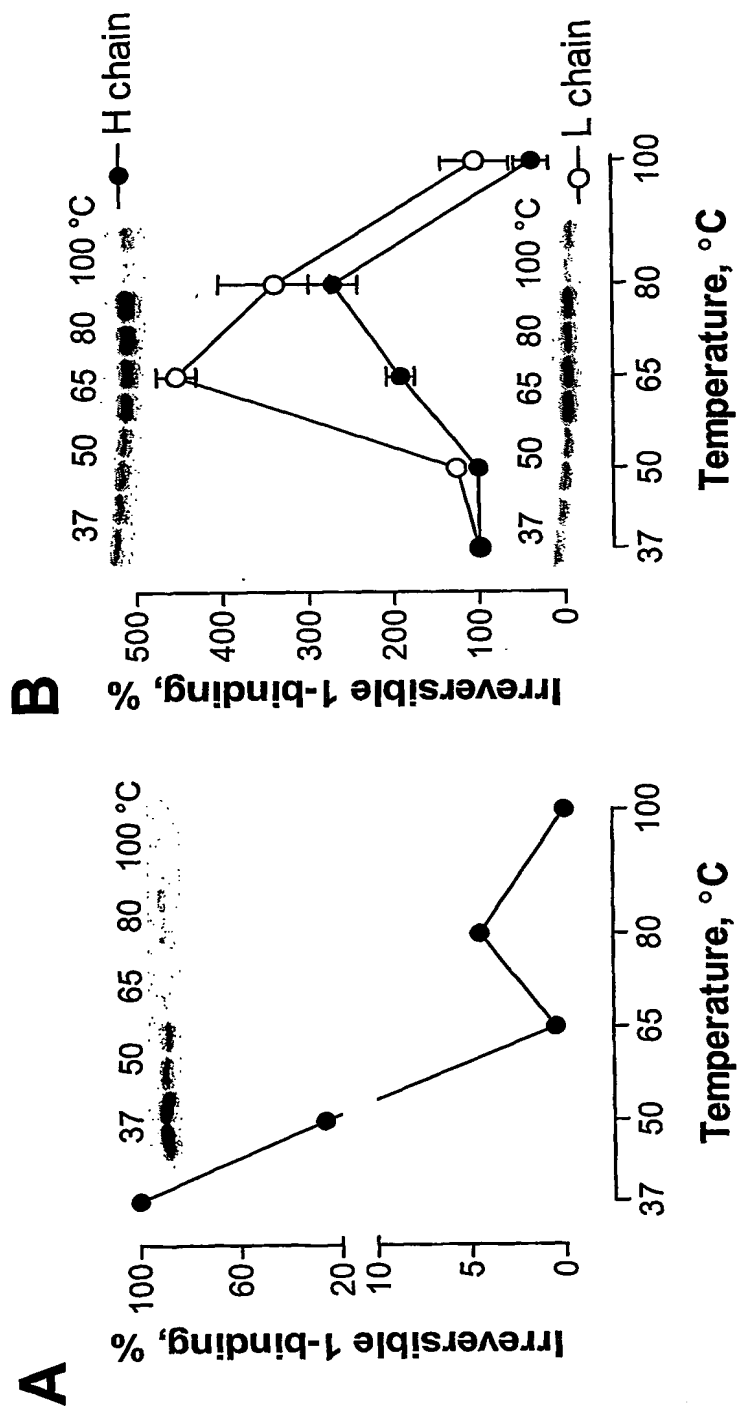


Fig 25



A

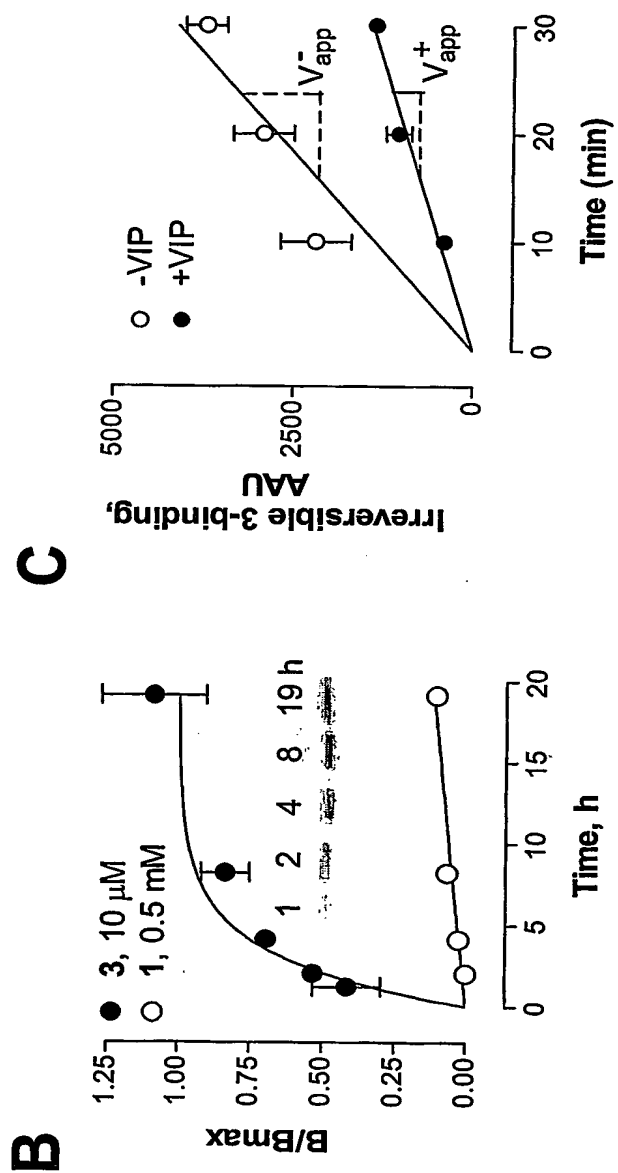
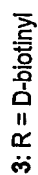


Fig 27

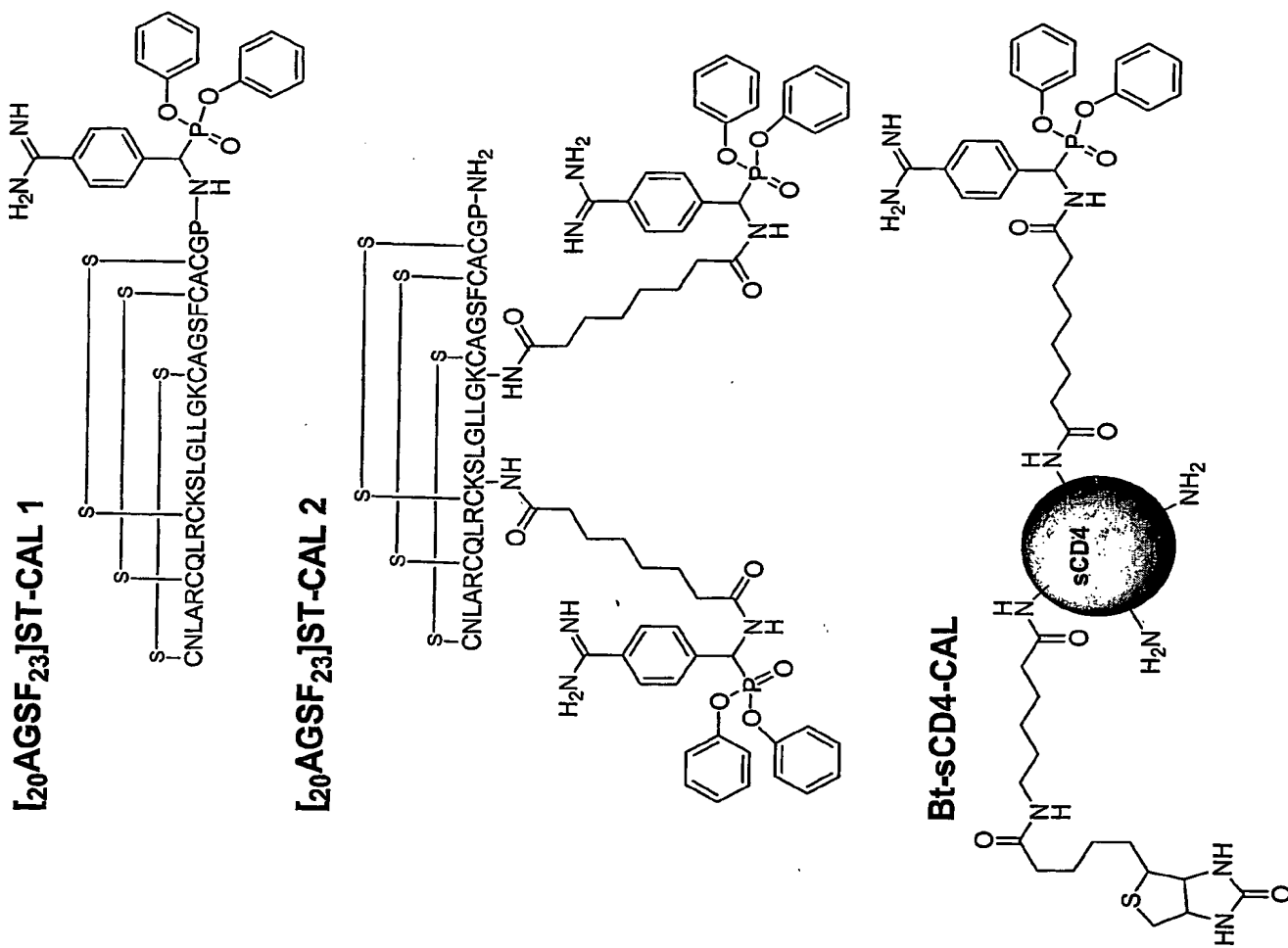


Fig 28

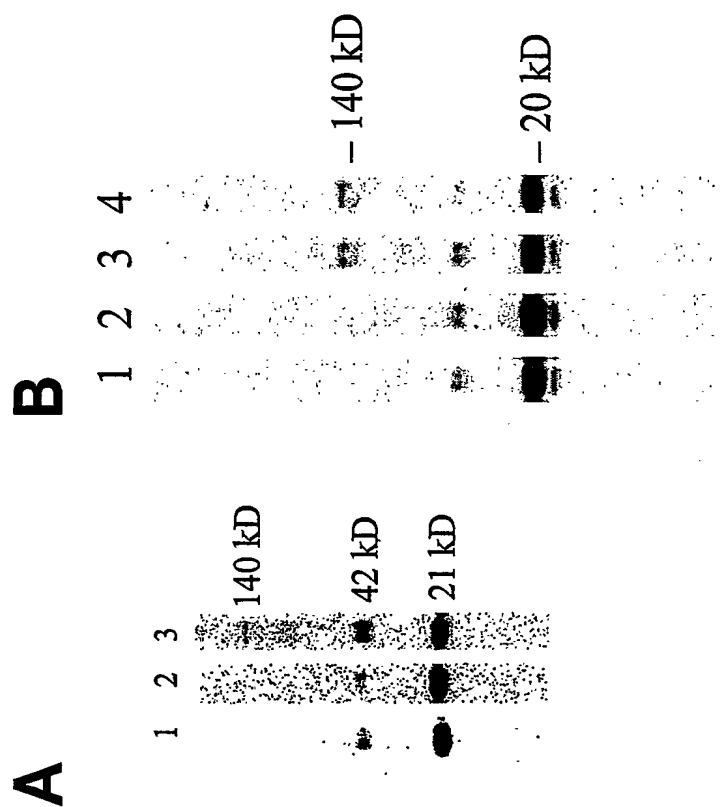


Fig 29

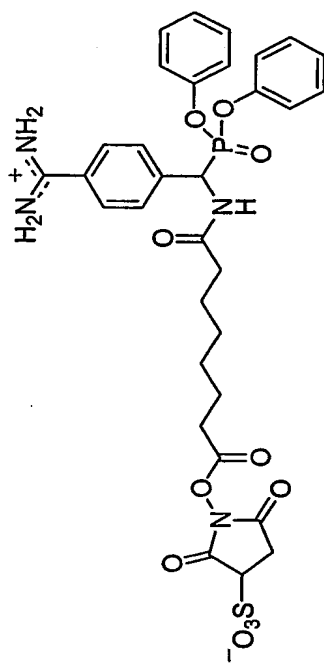
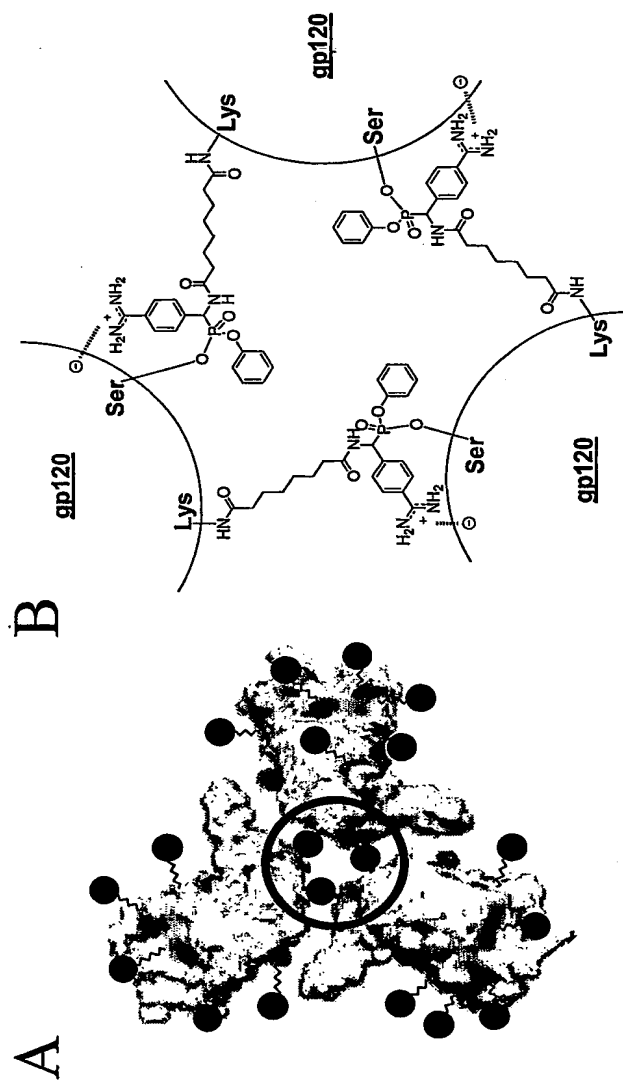


Fig 30



Fig 31



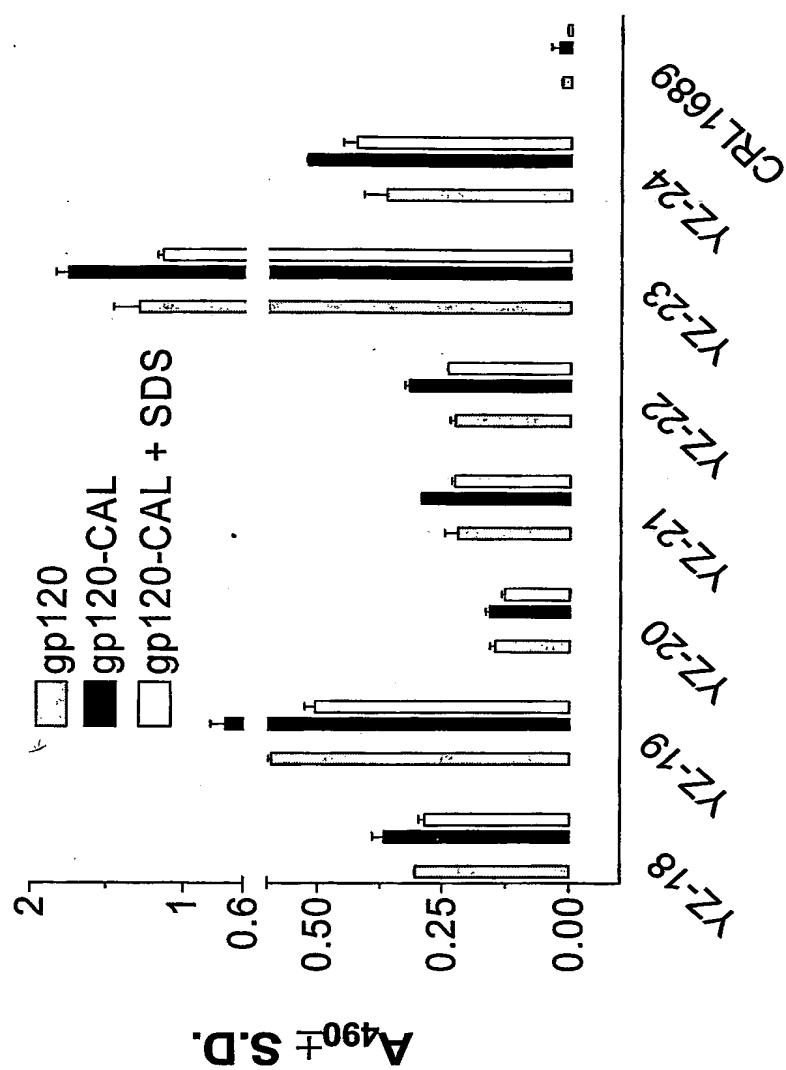


Fig 32

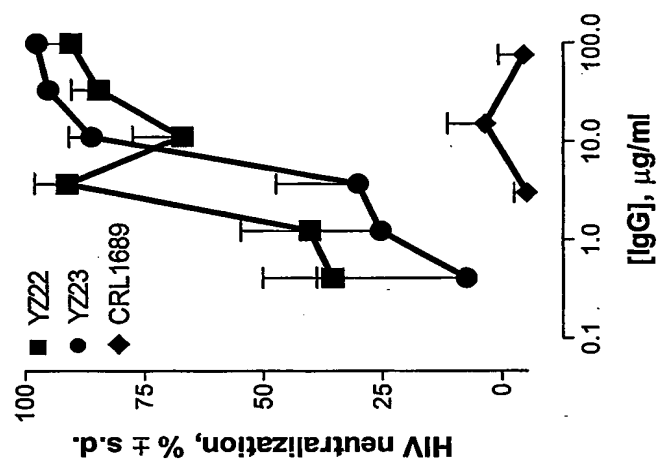


Fig 33

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ **BLACK BORDERS**

☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**

☒ **FADED TEXT OR DRAWING**

☒ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**

☐ **SKEWED/SLANTED IMAGES**

☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**

☐ **GRAY SCALE DOCUMENTS**

☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**

☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**

☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.